

**WHAT IS CLAIMED IS:**

1. A controller with small memory card interface switch USB interface, the controller at least comprise a small memory interface connecting with small memory card electric  
5 interface in information appliances, an electric interface for imitating standard small memory card, microprocessor of instruction group and communication protocol and an USB interface for connecting with USB memory device; the controller enable the small memory card interface in  
10 information appliances to access the pocket disk and relative memory device connecting with USB interface by proper transfer mechanism.
2. A controller with small memory card interface switch USB interface as claimed in claim 1, wherein data transfer buffer  
15 area being disposed between small memory card interface and USB interface to provide small memory card interface and USB interface with data transmission.
3. A controller with small memory card interface switch USB interface as claimed in claim 1 or 2, wherein conversion  
20 controller therein provided with program card memory to storage the controlling program of controlling microprocessor to simulate small memory card, access date, and access control program of USB interface storage device.
4. A controller with small memory card interface switch USB  
25 interface as claimed in claim 1 or 2, wherein the conversion controller therein provided with electric power manage circuit and/or PLL oscillator circuit to maintain the normal operation of conversion controller.
5. A controller with small memory card interface switch USB

interface as claimed in claim 1, wherein conversion controller therein provided with external memory interface to increase external memory, to increase the capacity of buffer area and used for data transfer buffer area.

5 6. A controller with small memory card interface switch USB interface as claimed in claim 1, wherein USB storage device is silicon disk machine/ hard silicon disk machine/disk/diskette machine.

7. A controller with small memory card interface switch USB  
10 interface as claimed in claim 1, wherein the conversion controller maybe in-build in similar small memory card, the similar CF card being provided on one side thereof a small memory card interface to electrically connect with small memory card electric interface of information appliances, and  
15 in interior thereof circuit board to electrically connect with conversion controller and said small memory card interface, the USB interface used for connecting with pocket disk (Thumbdrives) and/or relative storage device with USB interface, so by the conversion device enable small memory  
20 card electric interface of information appliances conversion to access to USB pocket disk and USB relative storage device.

8. A controller with small memory card interface switch USB interface as claimed in claim 7, wherein the similar memory card may be CF card, SD card, MMC card, MS card and small memory  
25 card with controller.

9. A controller with small memory card interface switch USB interface as claimed in claim 1, wherein USB interface of similar memory card is in-build and USB style with cable.